

In the Specification:

Please replace the paragraph beginning at page 2, line 9, with the following:

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In one aspect, the present invention provides recombinant nucleic acid molecules that encode a fusion polypeptide, the recombinant nucleic acid molecules comprising a Ra12 polynucleotide sequence and a heterologous polynucleotide sequence, wherein the Ra12 polynucleotide sequence hybridizes to SEQ ID NO:3 under stringent conditions. In one embodiment, the recombinant nucleic acid molecules comprise a Ra12 polynucleotide sequence which is located 5' to a heterologous polynucleotide sequence. In another embodiment, the recombinant nucleic acid molecules further comprise a polynucleotide sequence that encodes a linker peptide between the Ra12 polynucleotide sequence and the heterologous polynucleotide sequence, wherein the linker peptide may comprise a cleavage site. In yet another embodiment, the recombinant nucleic acid molecules encode fusion polypeptides which further comprise an affinity tag. In yet another embodiment, the recombinant nucleic acid molecules encode a fusion polypeptide comprising a DPPD, a WT1, a mammaglobin, or a H9-32A heterologous polypeptide. In yet another embodiment, the recombinant nucleic acid molecules comprise a Ra12 polynucleotide sequence comprising at least about 30 nucleotides, at least about 60 nucleotides, or at least about 100 nucleotides. In yet another embodiment, the recombinant nucleic acid molecules comprise a Ra12 polynucleotide sequence as shown in SEQ ID NO:3. In yet another embodiment, the recombinant nucleic acid molecules comprise a Ra12 polynucleotide sequence that encodes a Ra12 polypeptide as shown in SEQ ID NO:4, SEQ ID NO:17 or SEQ ID NO:18.

Please replace the paragraph beginning at page 4, line 4, with the following:

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Figure 7 illustrates Ra12(short) polypeptide (SEQ ID NO:17), which has amino acids 1-30 of SEQ ID NO:4.--

Please replace the paragraph beginning at page 4, line 6, with the following:

Figure 8 illustrates Ra12(long) polypeptide (SEQ ID NO:18), which has 128 amino acids of SEQ ID NO:4.

Please replace the paragraph beginning at page 4, line 8, with the following:

Figure 9 illustrates a construct of Ra12 (short) polynucleotide fused to a human mamoglobin gene (Met-His tag 6aa = SEQ ID NO:21).

Please replace the paragraph beginning at page 15, line 32, with the following:

In one embodiment, the Ra12 polypeptide sequence is as shown in SEQ ID NO:4. In another embodiment, the Ra12 polypeptide sequence comprises a portion of SEQ ID NO:4. For instance, an Ra12 polypeptide comprising 30 amino acids (e.g., amino acids 1-30 of SEQ ID NO:4; SEQ ID NO:17) or an Ra12 polypeptide comprising 128 amino acids (e.g., 128 amino acids of SEQ ID NO:4; SEQ ID NO:18) can be used as a fusion partner. See Examples 2 and 3 below.

Please replace the paragraph beginning at page 21, line 12, with the following:

DPPD sequence was engineered for expression as a fusion protein with Ra12 by designing oligonucleotide primers to specifically amplify the mature secreted form. The 5' oligonucleotide containing an enterokinase recognition site (DDDK; SEQ ID NO:22) has the sequences 5'-CAA TTA GAA TTC GAC GAC GAC GAC AAG GAT CCA CCT GAC CCG CAT CAG-3' (SEQ ID NO:15) and the 3' oligonucleotide sequence is 5'CAA TTA GAA TTC TCA GGG AGC GTT GGG CTG CTC (SEQ ID NO:16). The resulting PCR amplified product was digested with EcoRI and subcloned into the EcoRI site of the pET-Ra12 vector. Following transformation into the *E. coli*

344
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host strain (XL1-blue; Stratagene), clones containing the correct size insert were submitted for sequencing in order to identify those that were in frame with the Ra12 fusion. Subsequently, the DNA of interest (Fig. 3) was transformed into the BL-21 (pLysE) bacterial host and fusion protein expressed following induction of the culture with IPTG.

Please replace the paragraph beginning at page 24, line 5, with the following:

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In this example, a Ra12 polypeptide comprising 128 amino acids of SEQ ID NO:4 was used as a fusion partner to link with the full length human mammaglobin gene. This long form of Ra12 polypeptide has the amino acid sequence shown in SEQ ID NO:18, and is referred to herein as "Ra12(long)". Cloning and expression procedures similar those described in Example 2 were used. Compared to a construct without a Ra12(long) sequence, the fusion construct with a Ra12(long) sequence substantially increased the expression of the fusion Ra12(long)-mammaglobin protein.

Please insert the accompanying paper copy of the Sequence Listing, page numbers 1 to 21, at the end of the application.

REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-22, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.